MMM MMM MMM	MMM MMM MMM		AAAAA AAAAA AAAAA	AAA	AAA	AAAAA AAAAA AAAAA	2222222222 22222222222 22222222222	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
MMMMM		III	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMMMM		III	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMMMM		III	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMM	MMM MMM	III	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMM	MMM MMM	III	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMM	MMM MMM	III	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMM	MMM	III	AAA	AAA	AAA	AAA	CCC	PPPPPPPPPPPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPPPPPPPPPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPPPPPPPPPP
MMM	MMM	TTT	AAAAAAAA		AAAAAA	AAAAAAAA	CCC	PPP
MMM	MMM	TTT	AAAAAAAA			AAAAAAAA	CCC	PPP
MMM	MMM	TTT	AAAAAAAA	AAAAA	AAAAAA	AAAAAAAA	CCC	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP
MMP	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCCCCCCCCC	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	2222222222	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCCCCCCCCC	PPP

HH	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	RRRRRRR RRRRRRRR RR RR RR RRRRRRRR RRRRR
HH HH HH HH HH HH	EE EE EE EE EEEEEEEEEE	AAAAAAAAA AA AA AA AA	DD	RR RR RR RR RR RR RR
		\$		
		\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$		

MODULE HEADER (LANGUAGE (BLISS32) . IDENT = 'V04-000'

BEGIN

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FACILITY: MTAACP

ABSTRACT:

This module contains routines which position to headers or trailers and read them.

ENVIRONMENT:

Starlet operating system, including privileged system services and internal exec routines.

AUTHOR: D. H. GILLESPIE. CREATION DATE: 25-MAY-77 15:00

MODIFIED BY:

V03-006 MMD0323 Meg Dumont, 13-Aug-1984 15:17 Fix to fix MMD0285, the way it was implemented the call wasn't getting made.

V03-005 MMD0300 Meg Dumont, 20-Jun-1984 11:23
Fix to default Buffer offset length to zeros, when no HDR2 is present for the file.

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FORWARD ROUTINE

112 113 114

READ_HDR : COMMON_CALL, ! read HDR1, HDR2, and HDR3 and SPACE_EOF : COMMON_CALL NOVALUE, ! space to end of file SET_NUMBER_OF_LABELS : COMMON_CALL NOVALUE, ! set the number of labels read read HDR1, HDR2, and HDR3 and HDR4 if exist space to end of file HE VO

(1)

Page

HEADER VO4-000		D 1 16-Sep-1984 02:22:07 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:41 [MTAACP.SRC]HEADER.B32;1	Page (1
: 115 : 116 : 117 : 118	0498 1 UPDVCB LEOV 0499 1 MAKE_COR_FILE 0500 1 WRAP_AROUND	: COMMON_CALL NOVALUE, ! update VCB logical end of file : COMMON_CALL NOVALUE, ! update VCB : L\$WRAP_AROUND; ! continue search at beginning of volume set !	
115 116 117 118 119 120 121 122 123 124 125 126	0498 1 UPDVCB LEOV 0499 1 MAKE_COR_FILE 0500 1 WRAP_AROUND 0501 1 0502 1 EXTERNAL 0503 1 CURRENT_UCB 0504 1 IO_PACKET 0505 1 HDR1 0506 1 HDR2 0507 1 HDR3 0508 1 HDR4	: REF BBLOCK. ! address of IO request packet : REF BBLOCK. ! address HDR1 label : REF BBLOCK. ! address of HDR2 label : REF BBLOCK. ! address of HDR3 label : REF BBLOCK; ! address of HDR4 label	

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Page

CURRENT UCB, 10 PACKET HDR1, HDR2, HDR3 HDR4, MOUNT_VOL .EXTRN .EXTRN

0								1	G 1 6-Sep 4-Sep	0-1984 02:22 0-1984 12:46	:07	VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]HEADER.B32;1	Page 6
										.EXTRN	LOCA	L_FIB	
										.PSECT		E\$,NOWRT,2	
						5A	DD	00000	GET.	START HDR::			
					2F	AB	95	00002		START HDR:: POSHL TSTB	R10 47(C	URRENT_VCB)	: 0510
						03	DD	00005 00007 00009		BNEQ PUSHL PUSHL CALLS	#3		0565
		77	00006	CF AB		02	FB	00009 0000B		CALLS	#2.	MOUNT_VOL	
		73	08	AB	25	5A	04	0000B 00010 00015 00017 0001A	15:	BBS CLRL TSTB	R10	11 (CURRENT_VCB), 7\$	0570 0580
					2E	20	13	0001A		BEQL	25	URRENT_VCB)	
				01	2E	AB	91	0001C		CMPB	R10 46(C	URRENT_VCB), #1	0582
			33524448	8F	00006	DF	D1	0001E 00022 00024 0002D		CMPL		3, #861029448	
			30	50 AB	0000G 0080	CF	D0	0002F 00034 0003A		MOVL	CURR 176	ENT_UCB, RO RO), 48(CURRENT_VCB)	0584
				01	26	AB	B1	0003A 0003C 00040	2\$:	CMPW	38(0	URRENT_VCB), #1	0586
33	20	AO		50 06	0000G	A993121AB0AB9FEF01BBF03	91200B0453612130121A002	00042		BEQL INCL CMPB BNEQ CMPL BMOVL BMPW BGTRU MOVL CMPZV BNEQ BBC BLBC TSTW	10_P	ACKET, RO #6, 32(RO), #51	0595
		OD	0000G	CF OA				0004D 0004F		BBC	45	LOCAL_FIB, 4\$	0507
				UA	24	04 5A AB 05 00 CF	E1 E9 B5 13 FB D0	00055 00058 0005B		TSTW	36(C	URRENT_VCB)	0597
			0000v	CF 50	00006	00	FB	00050	1.4.	CALLS	#Ö,	SPACE_EOF	0599 0605
		51	0080	co	30	AB 07	C3	00062	43:	MOVL SUBL3	48(C	SPACE_EOF ENT_UCB, RO URRENT_VCB), 176(RO), RELATIVE_BLOCK	0607
				01	0080	CÓ	01	00070		CMPL	1760	RO), #1	. 0007
					2E	AB	95	00077	5\$:	TSTB	46(0	URRENT_VCB)	0609
			0000v	CF		00	FB	00070		CALLS	#0	READ HOR	0611
				50		01	13 12 95 12 FB 10 11 04	00067 0006E 00070 00075 0007A 0007C 00081 00083 00088	6\$:	MOVL	#1.	RO	0613
				5A		CO OC AB 07 00 07 01 02 50 8E	04	00088 0008A 0008D	7\$: 8\$:	SUBL3 BEQL CMPL BNEQ TSTB BNEQ CALLS BRB MOVL BRB CLRL MOVL RSB	RO (SP)	RO +, R10	0615

; Routine Size: 142 bytes, Routine Base: \$CODE\$ + 0000

: 234 0616 1

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CH\$MOVE(HD2\$S_RECLEN, HDR2[HD2\$T_BLOCKLEN], HDR2[HD2\$T_RECLEN]);

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HEADER
VO4-000
                                                                             16-Sep-1984 02:22:07
14-Sep-1984 12:46:41
                                                                                                          VAX-11 Bliss-32 V4.0-742
EMTAACP.SRCJHEADER.B32;1
                                 IF .CURRENT_VCB[VCB$W_RECORDSZ] NEQ 0 THEN
   BEGIN
                                      DESCR[0] = HD2$$ RECLEN;
DESCR[1] = HDR2[AD2$T_RECLEN];
                                      IF NOT $FAO(CVT5, 0, DESCR, .CURRENT_VCB[VCB$W_RECORDSZ])
                                      THEN
                                           CH$MOVE(HD2$S_RECLEN, HDR2[HD2$T_BLOCKLEN], HDR2[HD2$T_RECLEN]);
                                      END:
                                   Set up the default buffer offset length field. In case there is no HDR2 label
                                      HDR2[HD2$T_BUFOFF] = '00':
                                    Set up the Scratch area to read the labels into to determine if
                                  ! this is a good label, before copying it into the real label field.
                                  SCRATCH = .HDR1 + SCRATCH_OFFSET;
                                   Now try to read HDR2
                                  IF RFAD_BLOCK(.SCRATCH, ANSI_LBLSZ)
                                                                                      ! read into scratch area
   376
377
                   0759
0760
                                         .(.SCRATCH) EQLU 'HDR2'
                                      THEN
   380
381
382
383
                   0761
                                           BEGIN
                                           CH$MOVE (ANSI_LBLSZ, .SCRATCH, .HDR2);
NUMBER_OF_LABELS = 2;
                                                                                                ! HDR2 found
                                           IF .CURRENT_VCB[VCB$V_STARFILE]
                                                                                      ! if starlet file
                                           THEN
   386
387
388
389
390
391
                   0767
                                           BEGIN
                                                IF READ_BLOCK(.SCRATCH , ANSI_LBLSZ)
THEN
                                                                                                ! try to read HDR3
                                                    IF .(.SCRATCH) EQLU 'HDR3'
                                                BEGIN
   392
393
394
                                                    BEGIN
                                                          CH$MOVE(ANSI_LBLSZ, .SCRATCH, .HDR3);
                                                                                                         ! HDR3 found
                                                          NUMBER_OF_LABELS = 3;
   395
396
397
                                                     IF READ BLOCK (.SCRATCH , ANSI_LBLSZ)
                                                                                                     ! try to read HDR4
   398
399
                                                              IF . (.SCRATCH) EQLU 'HDR4'
                                                              THEN
   400
                                                              BEGIN
   401
                                                                   CH$MOVE(ANSI_LBLSZ, .SCRATCH, .HDR4);
                                                                                                                   ! HDR4 found
   402
                                                                   NUMBER_OF_LABELS = 4;
                                                              END:
   404
                                                END;
   405
                                           END;
   406
```

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HEADER V04-000					1	K 1 6-Sep-19 4-Sep-19	84 02:22 84 12:46	2:07 y	AX-11 Bliss-32 V4.0-742 MTAACP.SRCJHEADER.B32;1	Page 10 (3)
407 408 409 410 411 412 413 414 415	0788 0789 0790 0791 0792 0793 0794 0795 0796	CHCK 10	o clear TMS before retu CLR_EXCP(); ALLTSET_NUM ;	IRR_OF_L	ABELS, NUM	BER_OF_L	ABELS); return end of .ASCII .BLKB		g the tape	*
		00 00	00 32 31	000000 000000 35 30	004 00098 000° 00098 30 00096	P.AAA:	.LONG .ADDRES .ASCII	P.A	<0><0><0><0><0><0><0><0><0><0><0><0><0><	
		0000	5A 59 00000 5E 7E 6 CF	0000G CF 0000G 9F 08 58 50 8F 0000G CF 02 50	07FC 00000 9E 00000 9E 00000 C2 0000E D4 00011 9A 00013 DD 00017 FB 0001E E8 00020		ENTRY MOVAB MOVAB SUBL 2 CLRL MOVZBL PUSHL CALLS BLBS PUSHL	READ_HDHDR2.R AMSYS\$CI #8, SP NUMBER #80, -THDR1 #2, REAL RO. 1\$	R, Save R2,R3,R4,R5,R6,R7,R8,R9,R19 10 MKRNL, R9 OF_LABELS SPJ D_BLOCK	0 0617 0680 0681 0684
		31524448	8F (01 5E 0000V CF 04 0165 0000G DF 16 50 8F 0000G CF 02 50 1224 8F 0F	DD 00023 DD 00023 PF 00023 FB 00023 FB 00033 D1 00033 D1 00033 D1 00034 FB 00046 E8 00046 E8 00046 DD 00057	1\$:	PUSHL PUSHL PUSHAB CALLS BRW CMPL BEQL MOVZBL PUSHL CALLS BLBS CHMU	#1 #1 SP UPDVCB #4. SYS: 98 aHDR1, #2 #80, -(\$CMKRNL #827475016	0685 0693 0697
		0000	6 CF E5	0224 8F 07 01 0000G CF	13 00036 9A 00036 FB 00046 E8 00046 BF 00056 DD 00056 DD 00056 9F 00056 PF 00066 2C 00066	28:	DDD	HDR1	BEK TIL TYRET?	0699 0689 0703 0704
0050		20	69 57 6E	0000G CF 01 5E 0000V CF 04 6A 00 67	DD 00056 9F 0005F FB 00063 D0 00066 2C 00069		MOVL PUSHL PUSHL PUSHAB CALLS MOVL MOVC5	#1 SP MAKE_CUI #4. SYS! HDR2. R #0, (SP	7), #32, #80, (R7)	0708
0050	8F	00	6E	00	20 00071		MOVC5	#0, (SP), #0, #80, ahdr3	: 0709

**

HEADER VO4-000									16	1 -Sep- -Sep-	1984 02:22 1984 12:46	:07	VAX-11 Bliss-32 V4.0-742 EMTAACP.SRCJHEADER.832;1	Page	11 (3)
0050	86		20		56 6E	0000G 0000G	DF CF 00 66	20	00078 00078 00080		MOVL MOVC5	HDR4	. R6 (SP), #32, #80, (R6)	. 07	710
					50 03	34 22	AB AO	91	00086		MOVL CMPB BLEQU CLR3	52(CI 34(M) 3\$	URRENT VCB), MVL VL), #3	07	714 715
						04	A6	94	00092		CLRS	4 (R6)		07	717
				43	A6	3030	8F	80	00097	35:	BRB MOVW MOVR	#123	36, 67(R6)	0	719
				04	6E		05	Ď(\$4000 C	•	MOVW MOVB MOVL MOVAB	#5 5/67	DESCR	0	719 721 722 723 725
				04	AE 50 7E	0000G 42 04	CF AO AE	D()	000AA 000AF 000B3		MOVL MOVZWL PUSHAB	CURRI 66 (RI DESCI	ENT_UCB, RO 0), -(SP) R	Ö	725
				000000006	00 0A	FF34	7E CF 04 50	91 FE	000B6 000B8 000BC		CLRL PUSHAB CALLS	-(SP)	36.67(R6) 4(R7) DESCR DESCR+4 ENT_UCB, RO O), -(SP) RO DEFAULT, 5(RO) R7 5(R7), 10(R7) URRENT_VCB)		
		05	AO	FF2A	50		6A	00	00006		MOVE	HDR2	RO S(RO)	97	727
		0A	A7	05	CF 57 A7		64	00	00000	5\$:	MOVES	HDR2	R7 (07) 10(07)	07	729
		VA.	-	0,	-	50	AB	8	00009		TSTW	80 (ci	URRENT_VCB)	07	731
				04	6E AE 7E	0A 50 04	AA0566FF57F0EEF40A5A5B857BEEF	09191890909FE020281093909FE020BC90FE0120E90FE01209	00080 00087 00088 00088 00099 000995 00095 00		MOVL MOVZWL PUSHAB CLRL PUSHAB CALLS BLBS MOVL MOVC3 TSTW BEQL MOVAB MOV	#5, 1 10(R) 80(C) DESC!	DESCR 7), DESCR+4 URRENT_VCB), -(SP) R	0	734 735 737
				000000006	00	FEFD	7E CF 04 50	94 95 F8	000ED 000EF 000F3		PUSHAB CALLS BLBS	-(SP) CVT5	SYS\$FAO SRO S(RO), 10(RO) RO S6, 50(RO) HDR1, SCRATCH -(SP) TCH		
		OA	AO	05	09 50 A 0		6A	00	000FD		MOVL MOVC 3	HDR2	RO 5(RO) 10(RO)	07	739
					A0 50 A0	3030	6A	DO	00106	68:	MOVL	HDR2	RO \$6 50(RO)	07	746
			57		CF 7E	3030 00000140 50	6A 05 6A 8F 8F 57	C1 9/	0010F 00119 0011D		MOVW ADDL3 MOVZBL PUSHL CALLS BLBC CMPL BNEQ MOVC3 MOVZBL PUSHL CALLS BLBC CMPL BNEQ MOVC3	#320 #80 SCRA1	, HDR1, SCRATCH -(SP) ICH	07	751 756
				00006	CF 5B 8F		50	FE	0011F		CALLS	#2. F	ILAD_BEOCK	•	
				32524448	8F		67 52	D1	00127 0012E		CMPL BNEQ	(SCR/	ATCH), #844252232	07	759
		00	BA		67 58	0050	8F 02	28	00130		MOVC3	#80. #2.	(SCRATCH), ƏHDR2 NUMBER OF LABELS	07	762 763
					44 7E		AB 8F 57	9/	0013A 0013E 00142		BLBC MOVZBL PUSHL	45(CL #80. SCRA1	(SCRATCH), aHDR2 NUMBER_OF_LABELS JRRENT_VCB), 8\$ -(SP) ICH	: 07	765 768
				00006	CF 36 8F		02	FE	00144		BLBC	#2. F	KEAU_BLUCK		
				33524448			67 0B	D1	00140		BNEQ	(SCRA	ATCH), #861029448	2	771
		0000G	DF		67 58 7E	0050 50	0205672 55802 857020760 85360 85360 85360 85360	56	0010F 00119 0011D 0011F 00124 00127 0012E 00130 00137 0013A 0013E 00142 00149 00145 00155 00155	78:	MOVC3 MOVL MOVZBL	#80.	(SCRATCH), aHDR3 NUMBER_OF_LABELS -(SP)	07 07 07	774 775 777

HEADER VO4-000				M 1 16-Sep-1984 02:22:07 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:41 [MTAACP.SRC]HEADER.B32;1	Page 12 (3)
0000G	0000G 34524448 DF 0000G	CF 14 8F 67 58 CF	0050 0000v	57 DD 00164 02 FB 00166 50 E9 0016B 67 D1 0016E 0B 12 00175 8F 28 00177 04 D0 0017F 00 FB 00182 58: CALLS #0, CRATCH), #877806664 00 FB 00182 58 DD 00187 01 DD 06189 5E DD 00188 CF 9F 0018D 04 FB 00191 01 D0 00194 04 00197 50 D4 00198 9\$: CALLS #4, SYS\$CMRRNE 04 00198 9\$: CALLS #4, SYS\$CMRRNE 06 00198 9\$: CALLS #4, SYS\$CMRRNE 07 D0 00198 08 PUSHAB SET_NUMBER_OF_LABELS 09 00199 09 PUSHAB SET_NUMBER_OF_LABELS 09 PUSHAB SET_NUMBER_OF_LABELS 09 00199 09 PUSHAB SET_NUMBER_OF_LABELS	0779 0782 0783 0792 0793

; Routine Size: 411 bytes, Routine Base: \$CODE\$ + 00A4

; 416 0797 1

```
N 1
16-Sep-1984 02:22:07
14-Sep-1984 12:46:41
HEADER
VO4-000
                                                                                                              VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]HEADER.832;1
                                                                                                                                                           Page 13 (4)
                    0798
0799
0800
                              GLOBAL ROUTINE WRAP_AROUND : L$WRAP_AROUND =
   FUNCTIONAL DESCRIPTION:
If this is not the first time through and the search started
                                        at the beginning of the volume set then return error else rewind volume set
                                CALLING SEQUENCE: WRAP_AROUND()
                                INPUT PARAMETERS:
                    0810
0811
0812
0813
0814
0815
0816
0817
0818
0820
                                        none
                                IMPLICIT INPUTS:
LOCAL_FIB - copy of user's fib
                                        CURRENT_VCB - address of current volume VCB
                                OUTPUT PARAMETERS:
                                        none
                                IMPLICIT OUTPUTS:
                                        none
                                ROUTINE VALUE:
                                        O back to beginning of search
                                        1 at beginning of volume set
                                SIDE EFFECTS:
                                        none
                                   BEGIN
                                   EXTERNAL REGISTER
                                        COMMON_REG:
                                  EXTERNAL ROUTINE MOUNT VOL REWIND VOL SET
                                                            : COMMON_CALL, : COMMON_CALL;
                                                                                          mount volume
rewind volume set
                                   EXTERNAL
                                       LOCAL_FIB
                                                            : BBLOC
                                                                                          ! copy of user's fib
                                   IF .CURRENT_VCBEVCB$L_START_FID3 EQL %X'00010001'
                                   THEN
                                        RETURN O
                                   ELSE
                                        BEGIN
                                        REWIND_VOL_SET();
                                        ! get first volume mounted
                                       MOUNT_VOL(1, $FIELDMASK(MOUSV_REWIND) + $FIELDMASK(MOUSV_LBLCHECK));
                                        IF NOT READ_HDR()
```

IN:

HEADER VO4-000				B 2 16-Sep-1984 02:22:07 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:41 [MTAACP.SRC]HEADER.B32;1	Page 14
475 476 477 478 479 480 481 482	0855 0856 0857 0858 0859 0860 0861 0862	THEN ERR_ENTERNERS END:	KIT(SS\$_TA	PEPOSLOST);	
481 482	0861 2 0862 1	END;		! end of routine	
				.EXTRN REWIND_VOL_SET	
		00010001 8F	28	AB D1 00000 WRAP_AROUND:: CMPL 40(CURRENT_VCB), #65537	: 0843
		0000G CF		1E 13 00008	0848 0852
		0000G CF FE48 CF 04		TE 13 00008 OF FB 0000A OF FB 0000A CALLS OF FB 0000F OF FB 00011 OF FB 00013 CALLS OF FB 00018 CALLS OF FB 00010 BLBS CHMU OF OF O0020 OF O0027 RSB CMPL 40(CURRENT_VCB), #65537 #65537 #65537 #70, REWIND_VOL_SET #70 #70 #70 #70 #70 #70 #70 #7	0854
		50	0224	8F BF 00020 CHMU #548 01 D0 00024 1\$: MOVL #1, R0 05 00027 RSB	0856 0860
				50 D4 00028 28: CLRL R0 05 0002A RSB	0862

; Routine Size: 43 bytes, Routine Base: \$CODE\$ + 023F

; 483 0863 1

\

IN

```
HEADER
VO4-000
   GLOBAL ROUTINE SPACE_EOF : COMMON_CALL NOVALUE =
                 FUNCTIONAL DESCRIPTION:
                                   This routine spaces to the end of the current file, right before the next file.
                            CALLING SEQUENCE:
SPACE_EOF()
                             INPUT PARAMETERS:
                                   none
                             IMPLICIT INPUTS:
                                   CURRENT_VCB _ address of current VCB
                             DUTPUT PARAMETERS:
                                   none
                             IMPLICIT OUTPUTS:
                                   none
                 0886
0887
0888
                             ROUTINE VALUE:
                                   none
  SIDE EFFECTS:
                                   The tape is left positioned in front of HDR1 of the next file
                               BEGIN
                               SWITCHES NOOPTIMIZE:
                               EXTERNAL REGISTER
                                   COMMON_REG;
                               EXTERNAL ROUTINE
                                   GTMEXT VOL READ
READ BLOCK
SPACE TM
                                                       JSB,
COMMON_CALL,
COMMON_CALL;
                                                                                  get next volume on read
                                                                                  read mag tape block
                                                                                  space tm
                               EXTERNAL
                                   CURRENT_UCB
                                                     : REF BBLOCK:
                                                                                ! address of current ucb
                              LOCAL TM;
                               ! If tape is positioned in header set, space 2 tape marks
                               IF .CURRENT_VCB[VCB$B_TM] EQL O AND .HDR1[HD1$L_HD1LID] EQL 'HDR1'
                               THEN
                                   SPACE_TM(2);
                               ! if in data area, space 1 tape mark
```

```
INVO
```

```
D Z
16-Sep-1984 02:22:07
14-Sep-1984 12:46:41
HEADER
VO4-000
                                                                                                 VAX-11 Bliss-32 V4.0-742 EMTAACP.SRCJHEADER.B32;1
  .CURRENT_VCB[VCB$B_TM] EQLU 1
                 SPACE_TM(1);
                                 Now if trailer label has not been read, read it
                               IF .CURRENT_VCB[VCB$B_TM] EQLU 2
                                   (.CURRENT_UCB[UCB$L_RECORD] - .CURRENT_VCB[VCB$L_ST_RECORD]) EQL 0
                               THEN
                                   IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
                                       ERR_EXIT(SS$_TAPEPOSLOST);
                               WHILE 1
                               DO
                                   BEGIN
                                   IF .HDR1[HD1$L_HD1LID] EQL 'EOF1'
                                   THEN
                                       EXITLOOP:
                                   IF .HDR1[HD1$L_HD1LID] NEQ 'EOV1'
                                       ERR_EXIT(SS$_TAPEPOSLOST);
                                   GTNEXT_VOL_READ();
                                   IF .CURRENT_VCB[VCB$B_TM] EQLU 0
                                   THEN
                                       SPACE_TM(2)
                                   ELSE
                                       SPACE_TM(1);
                                   IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
                                       ERR_EXIT(SS$_TAPEPOSLOST);
                                   END;
                               IF .CURRENT_VCB[VCB$B_TM] EQLU 2
                                   SPACE_TM(1);
                                                                                ! end of routine
                              END:
                                                                                  .EXTRN
                                                                                          GTNEXT_VOL_READ SPACE_TM
```

07FC 00000 CF 9E 00002

SPACE_EOF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10 : 0864 SPACE_TM, R2

HEADER VO4-000					1	E 2 6-Sep- 4-Sep-	1984 02:22 1984 12:46	2:07	VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]HEADER.B32;1	Page 17 (5)
			ZE AB	95	0000		TSTB	46(0	URRENT_VCB)	; 0916
	31524448	8F 00	00G 0F		0000 A		CMPL	15 PHDR	1. #827475016	
		62	02 01	DD	00017		BNEQ PUSHL CALLS	12	SPACE_TM	0918
		62 01	EE AB	91	00010	18:	CMPB	46(c 2\$	URRENT_VCB), #1	0923
		62	01 01	DD	00022		CMPB BNEQ PUSHL CALLS	#1	CDACE TM	0925
		62 02	PE AB	91 12	00027	2\$:	(MPB	46(0	SPACE_TM URRENT_VCB), #2	0930
	30	50 00 AB 00	00G CF	D1	00020		BNEQ MOVL CMPL	1760	ENT_UCB, RO RO), 48(CURRENT_VCB)	0932
		7E	50 8F	12 9A	ACCOC A	38:	BNEQ MOVZBL	#80	-(SP)	0935
	00006	CF 04	00G CF 02 50	DD FB E8	00042		PUSHL CALLS BLBS	HDR1	READ_BLOCK	•
	31464F45	8F 69	24 8F 00G DF 22	BF D1	0004A 0004E	48:	BLBS CHMU CMPL	#548 ahdr	1, #826691397	0937 0943
	31564F45	8F 00	00G DF 04	13 01	00057 00059		CMPL	85 ahdr	1, #827739973	0947
		02	24 8F	BF	00064		CHMU	5 \$ #548		0949
			DOOO	95	30008 80000	58:	BSBW TSTB	46(XT_VOL_READ URRENT_VCB)	0951 0953
			04 02 02	12			BNEQ	6\$ #2 7\$		0955
			01	DD	00074	6\$:	BRB PUSHL	#1		0957
		62	01 BF	FB	00079		BRB	35	SPACE_TM	0959
		02	E AB	91	0007B	8\$:	CMPB BNEQ	46(C	URRENT_VCB), #2	0965
		62	01 01	DD FB			PUSHL	#1	SPACE_TM	0967
				04	00086	98:	RET			0969

; Routine Size: 135 bytes, Routine Base: \$CODE\$ + 026A

; 591 0970 1

IN

; [

HEADER VO4-000									1	6 2 6-Sep-1 4-Sep-1	984 02:22 984 12:46	:07	VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]HEADER.B32;1	Page 19
										STARIO	.EXTRN	FORMA	T_FID	
		30	AO	E8	50 AF	04	AC 54 09 02	001C 00 04 29	00000 00002 00006 00008 0000E	MAKE_(WORD MOVL CLRL CMPC3 BNEQ INCL INSV PUSHAB	Save LABEL R4 #9, S	R2,R3,R4 S, R0 TARID, 60(RG)	: 0971 : 1020
20	AB		01	00006	00 CF	24	54 54 AB 01	D6 F0 9F FB 04	00010 00012 00018 0001B 00020	1\$:	INCL INSV PUSHAB CALLS RET	R4 R4 # 36(CU #1, F	0, #1, 4>(CURRENT_VCB) RRENT_VCB) ORMAT_FID	1021

IN

; Routine Size: 33 bytes, Routine Base: \$CODE\$ + 0300

: 645 1023 1

```
HEADER
VO4-000
                                                                                16-Sep-1984 02:22:07
14-Sep-1984 12:46:41
                                                                                                              VAX-11 Bliss-32 V4.0-742
EMTAACP.SRCJHEADER.B32;1
   GLOBAL ROUTINE UPDVCB_LEOV (BIT_VALUE) : COMMON_CALL NOVALUE =
                                FUNCTIONAL DESCRIPTION:
                                        This routine sets or clears the logical end of file bit in the VCB
                                CALLING SEQUENCE:
                                        UPDVCB_LEOV(ARG1), called in kernel mode
                                INPUT PARAMETERS:
                                        value to set logical end of volume to:

0 - clear bit
1 - set bit
                                IMPLICIT INPUTS:
                                        CURRENT_VCB - address of volume control block
                                DUTPUT PARAMETERS:
                                       none
                                IMPLICIT OUTPUTS:
                                        CURRENT_VCB[VCB$V_LOGICEOVS] is set or cleared
                                ROUTINE VALUE:
                                        none
                   1050
1051
1052
1053
1054
1055
1056
1057
1058
1059
                                SIDE EFFECTS:
                                       none
                                  BEGIN
                                   EXTERNAL REGISTER
                                        COMMON_REG;
                    1061
                                   CURRENT_VCB[VCB$V_LOGICEOVS] = .BIT_VALUE;
                                                                                          ! end of routine
                                                                    0000 00000
F0 00002
                                                                                                                                                               1024
1061
1062
                                                                                                      UPDVCB LEOV, Save nothing BIT_VACUE, #1, #1, 11(CURRENT_VCB)
                                                                                             ENTRY
                                                                       FO 00002
04 00009
                               01
                                                01
                                                                                            INSV
; Routine Size: 10 bytes,
                                     Routine Base: $CODE$ + 0321
```

1063 1

686

...

```
HEADER
VO4-000
                                                                                          16-Sep-1984 02:22:07
14-Sep-1984 12:46:41
                                                                                                                            VAX-11 Bliss-32 V4.0-742 EMTAACP.SRCJHEADER.B32;1
                                                                                                                                                                               Page
   ROUTINE SET_NUMBER_OF_LABELS (NUMBER_OF_LABELS) : COMMON_CALL NOVALUE =
                      FUNCTIONAL DESCRIPTION:
                                            This routine sets then number of labels read by the MTAACP in the VCB.
This value will be used to determine how many labels are written out won volume switch or at end of file rocessing. The reason this is necessary is so that if a file is on with fewer labels then we support
                                             we do not write the greater number o IDR labels out to the tay would be a noncompliance with the ANSI standard for tape label
                                                                                                   IDR labels out to the tape. This
                                             processing.
                                    CALLING SEQUENCE:
                                             SET_NUMBER_OF_LABELS(ARG1), called in kernel mode
                                    INPUT PARAMETERS:
                                             Number of labels read.
                                    IMPLICIT INPUTS:
                                             CURRENT_VCB - address of volume control block
                                    OUTPUT PARAMETERS:
                                            none
                                    IMPLICIT OUTPUTS:
                                             CURRENT_VCB[VCB$B_LBLChT] is set
                                    ROUTINE VALUE:
                                            none
                                    SIDE EFFECTS:
                                            none
                                       BEGIN
                                       EXTERNAL REGISTER
                                             COMMON_REG;
                                       CURRENT_VCB[VCB$B_LBL(NT] = .NUMBER_OF_LABELS; end of routine
                                                                             0000 00000 SET_NUMBER_OF_LABELS:
                                                                                                                                                                                   1064
1105
1106
                                                                                                                   Save nothing NUMBER_OF_LABELS, 72(CURRENT_VCB)
                                                                                    00002
                                                                                                        MOVB
: Routine Size: 8 bytes.
                                        Routine Base: $CODE$ + 032B
```

: 731

1107 1

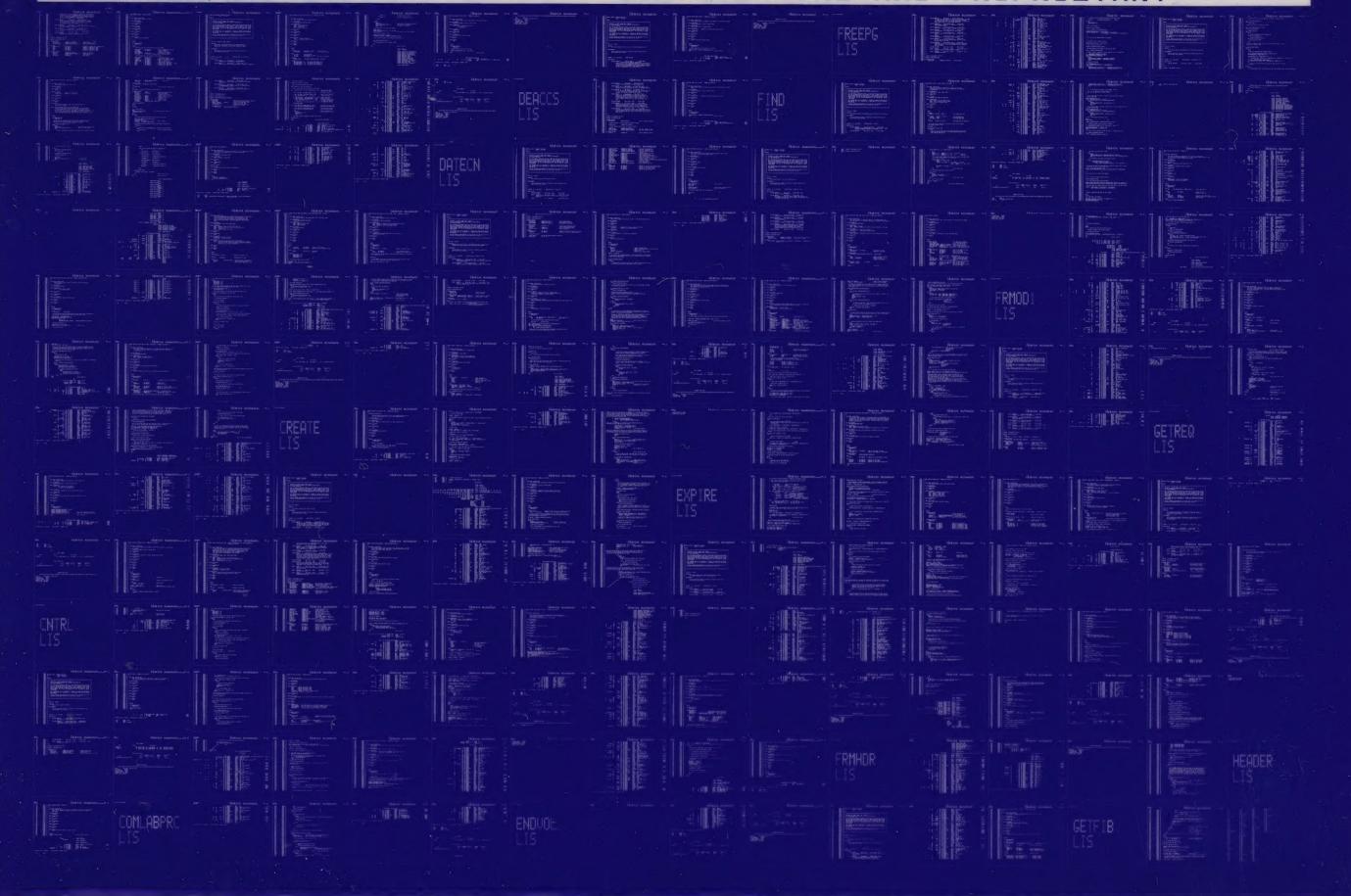
J 2 16-Sep-1984 02:22:07 14-Sep-1984 12:46:41 HEADER VO4-000 VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]HEADER.B32;1 1 END PSECT SUMMARY Name Bytes Attributes 819 NOVEC, NOWRY, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) \$CODE\$ Library Statistics ----- Symbols -----Pages Processing File Loaded Total Percent Time Mapped _\$255\$DUA28:[SYSLIB]LIB.L32:1 18619 36 0 1000 00:01.8 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: HEADER/DBJ=OBJ\$: HEADER MSRC\$: HEADER/UPDATE=(ENH\$: HEADER) : Size: 782 code + 37 data bytes : Run Time: 00:17.7 : Elapsed Time: 00:40.6 : Lines/CPU Min: 3771 : Lexemes/CPU-Min: 18091 : Memory Used: 163 pages : Compilation Complete

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0254 AH-BT13A-SE

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0255 AH-BT13A-SE VAX/VMS V4.0

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